

Precision Regulators with Manual Override Series PR

New

5

Ports: G1/4 and G3/8



- » High precision
- » 35% higher flow
- » Triple diaphragm construction
- » Compact dimensions
- » Adjustment lock
- » Removable adjustment knob
- » Four ranges of pressure

REGULATORS

Series PR precision pressure regulators work on a three diaphragms force-balance principle which allows them to react even to the smallest changes in pressure that can occur during operation.

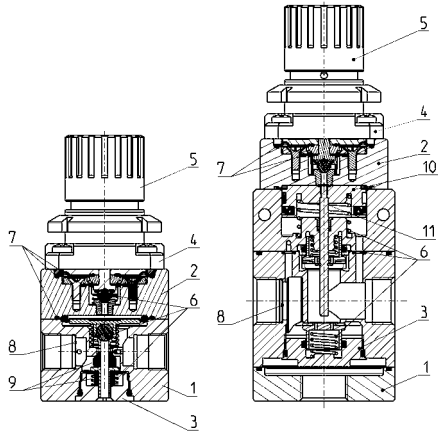
GENERAL DATA

Construction	compact, multi-diaphragm type
Materials	see the following page
Ports	Size 1: G1/4, Size 2: G1/4, G3/8
Mounting	vertical in-line, wall or panel mounting (in any position)
Working temperature	from 0°C to 50°C (32°F - 122°F)
Inlet pressure	0.1 - 12 bar (1.45 - 174 psi)
Outlet pressure	0.05 - 10 bar (0.7 - 145 psi) 0.05 - 2 bar (0.7 - 29 psi) 0.05 - 4 bar (0.7 - 58 psi) 0.05 - 7 bar (0.7 - 101.5) standard
Overpressure exhaust	with relieving (standard)
Nominal flow	see flow diagrams (following pages)
Media	filtered and not lubricated compressed air according to DIN ISO 8573-1 Classes 1-3-2
Hysteresis	20mbar (0.29 psi)
Repeatability	±0.2% FS
Bleed air consumption	≤ 5 l/min

CODING EXAMPLE

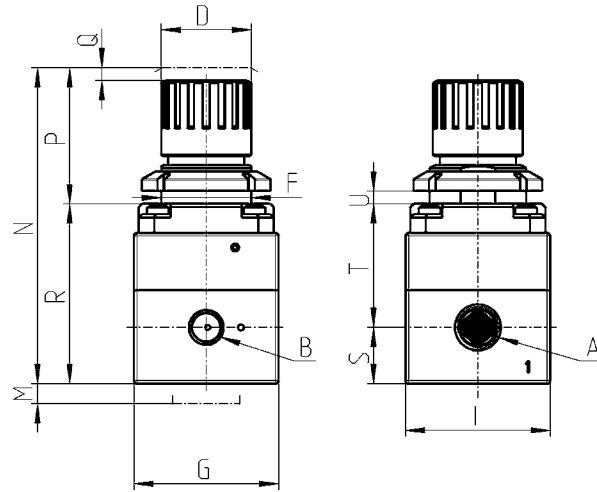
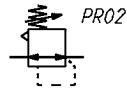
PR	1	04	-	M	07	TF
PR	SERIES					
1	SIZE: 1 = Size 1 2 = Size 2					
04	PORTS: 04 = G1/4 38 = G3/8 (size 2 only)					
M	TYPE OF ADJUSTMENT: M = manual					
07	OPERATING PRESSURE (1 bar = 14.5 psi): 00 = 0.05 - 10 bar (0.7 - 145 psi) 02 = 0.05 - 2 bar (0.7 - 29 psi) 04 = 0.05 - 4 bar (0.7 - 58 psi) 07 = 0.05 - 7 bar (0.7 - 101.5)					
TF	PORT TF = NPTF Blank = BSP thread ports					

Series PR precision regulators - materials



PARTS	MATERIALS
1 = Body	Anodized aluminium
2 = Intermediate body	Aluminium
3 = Valve holder plug	Brass
4 = Bell	Polyamide
5 = Regulator knob	Polyamide
6 = Springs	Stainless steel
7 = Diaphragms	NBR
8 = Filters	Stainless steel
9 = Seals	NBR
10 = Piston	Aluminum
11 = Stem	Stainless Steel
O-ring	NBR

Series PR precision regulators - Size 1 dimensions

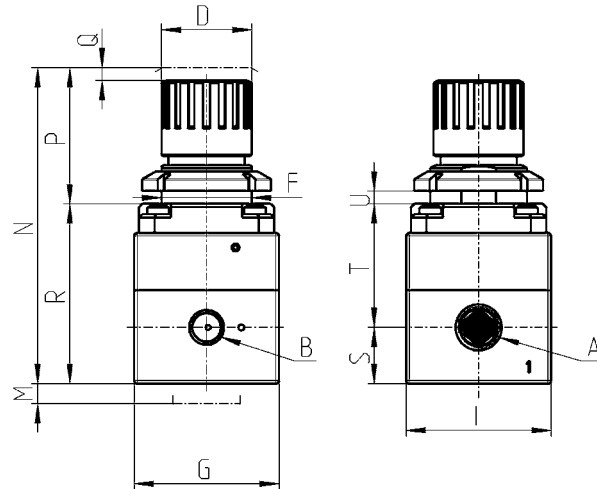
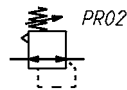


DIMENSIONS

Mod.	A	B	D	F	G	I	M	N	P	Q	R	S	T	U	Weight (Kg)
PR104-M*	G1/4	G1/8	28	30	45	45	25	96	40	2	56	17.5	38.5	0-6	0.35

* to complete part number, add operating pressure per coding example

Series PR precision regulators - Size 2 dimensions

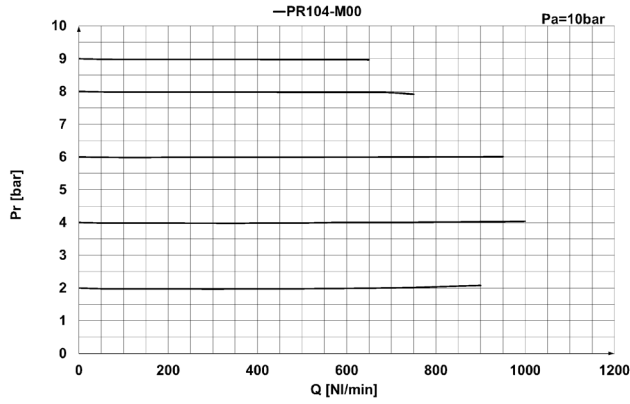


DIMENSIONS

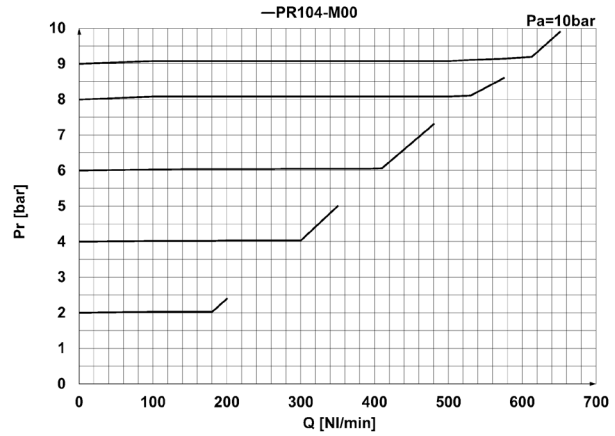
Mod.	A	B	D	F	G	I	M	N	P	Q	R	S	T	U	Weight (Kg)
PR204-M*	G1/4	G1/8	28	30	50	50	25	140	40	2	101.8	35.5	66.3	0-6	0.645
PR238-M*	G3/8	G1/8	28	30	50	50	25	140	40	2	101.8	35.5	66.3	0-6	0.645

* to complete part number, add operating pressure per coding example

FLOW DIAGRAMS Mod. PR104-M00

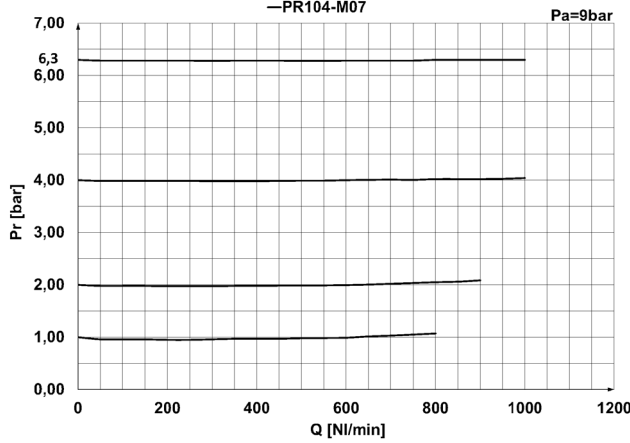


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

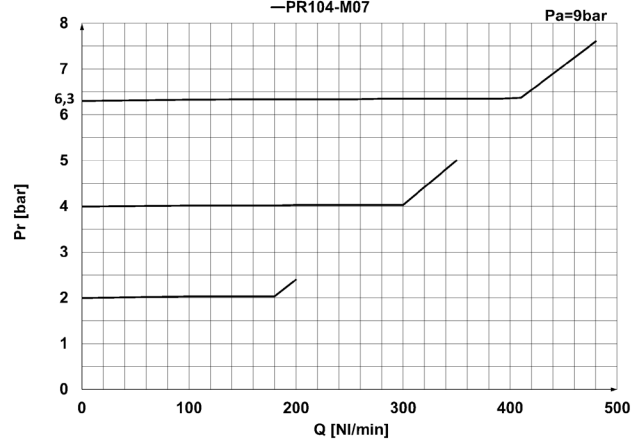


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR104-M07

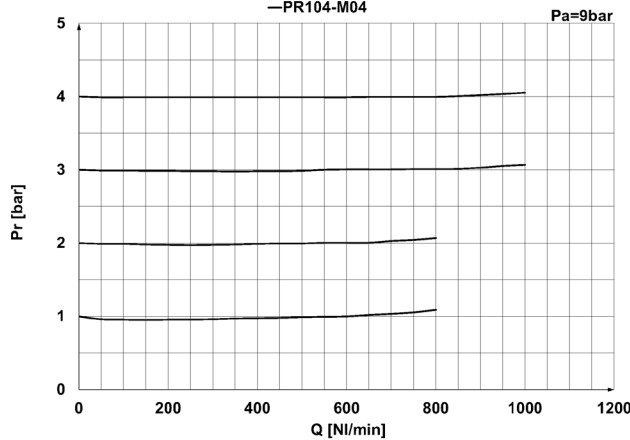


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

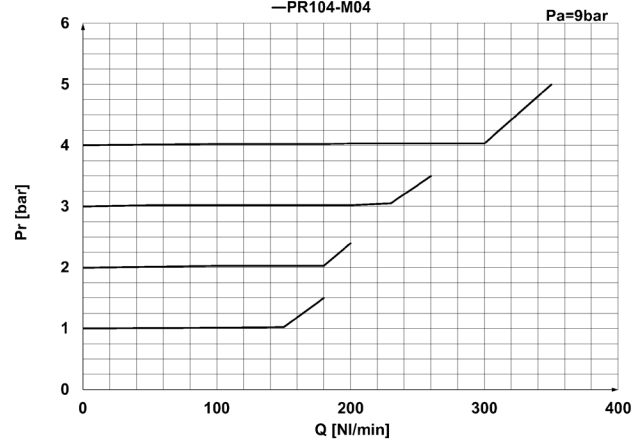


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR104-M04

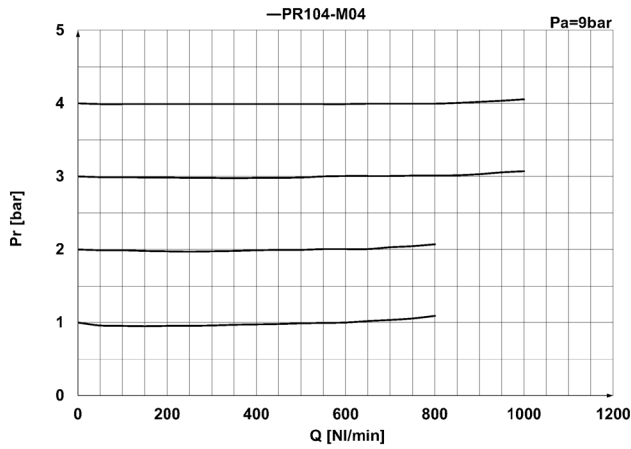


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

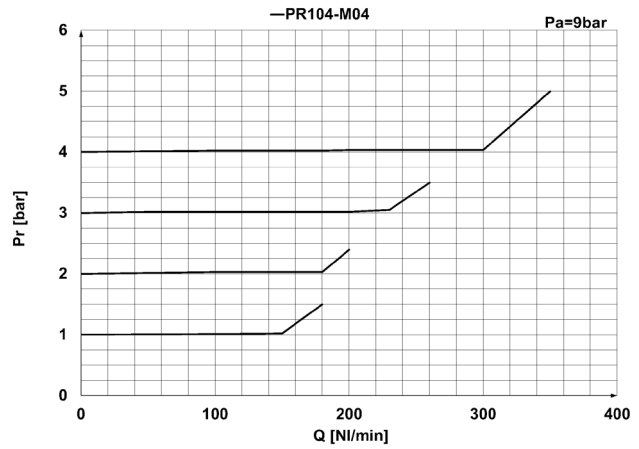


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR104-M02

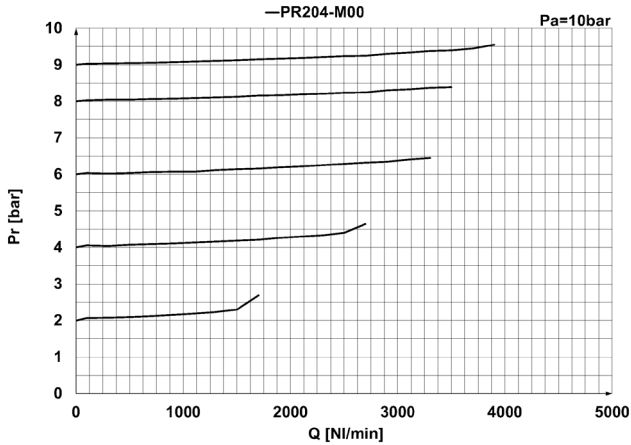


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

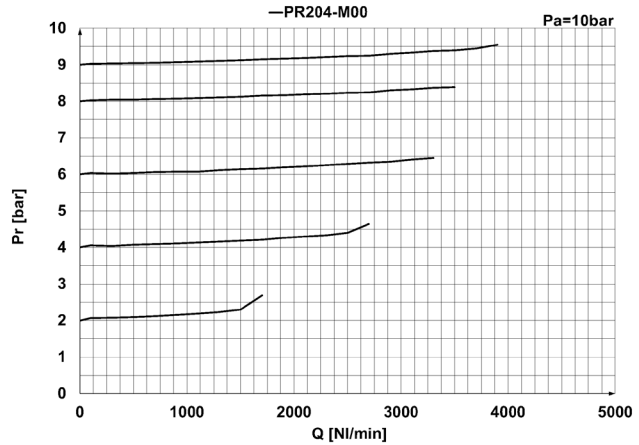


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR204-M00

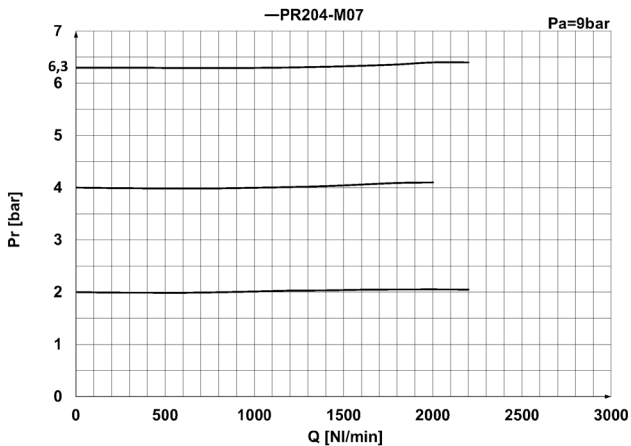


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

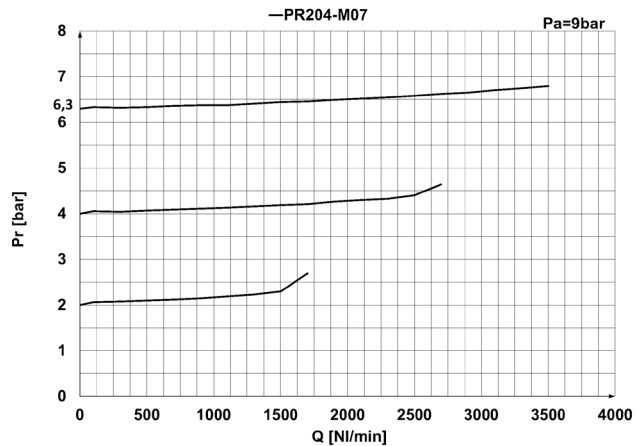


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR204-M07

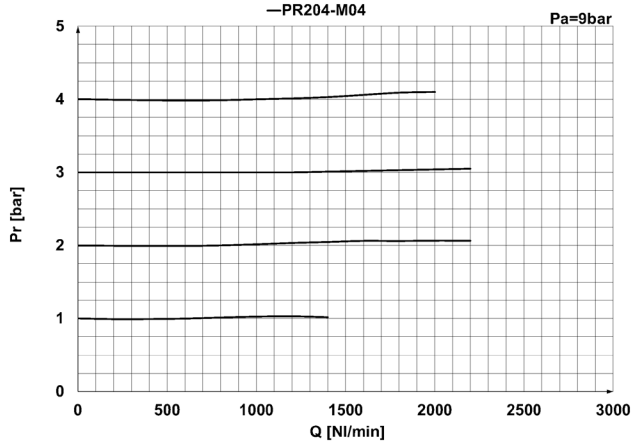


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

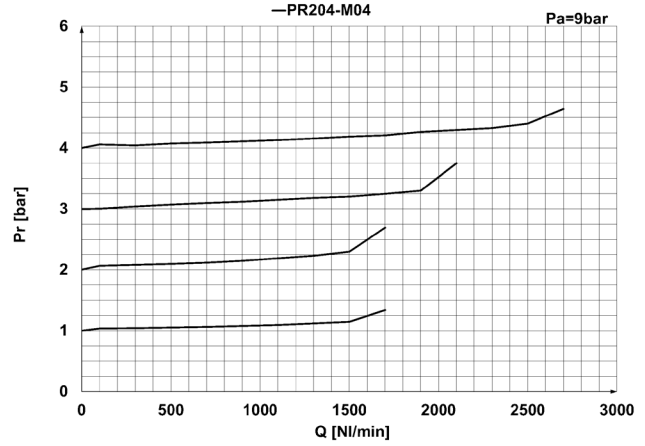


EXHAUST FLOW
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 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR204-M04

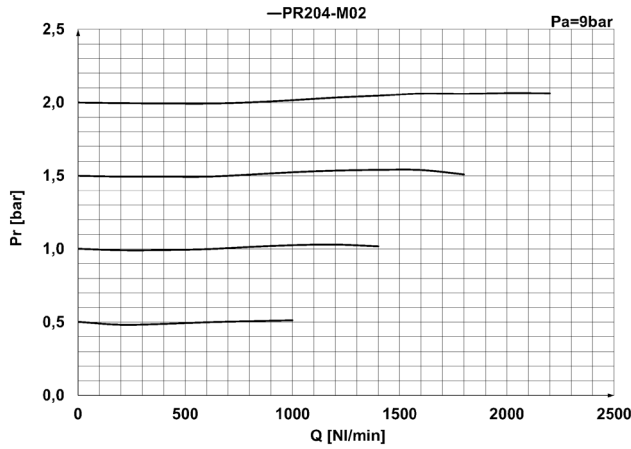


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

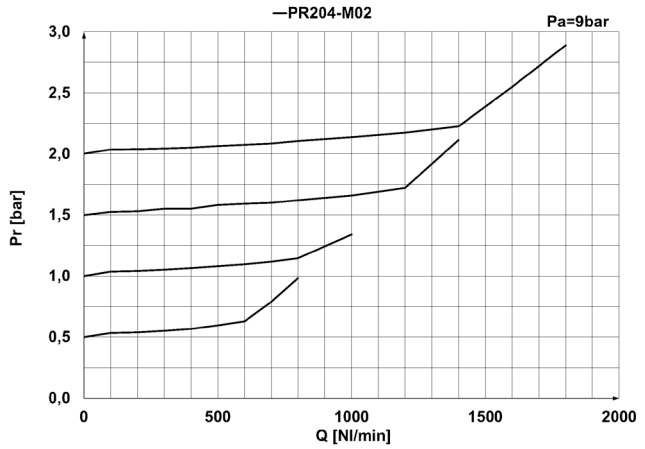


EXHAUST FLOW
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 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR204-M02

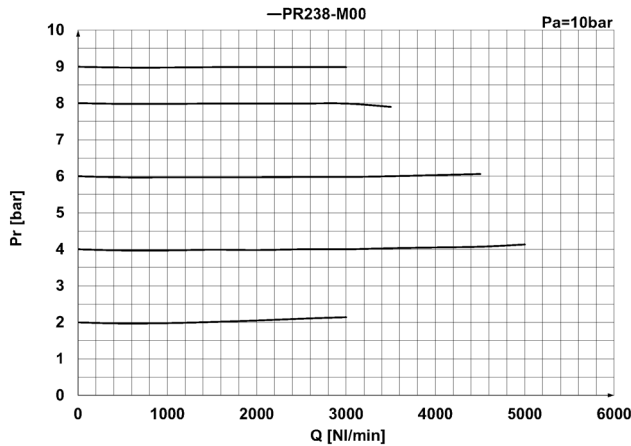


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

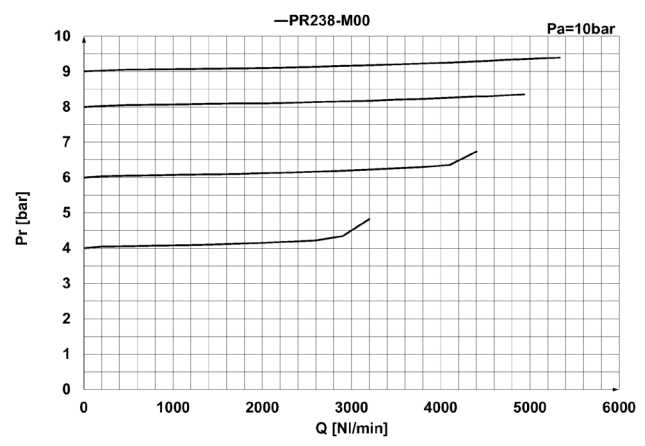


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR238-M00

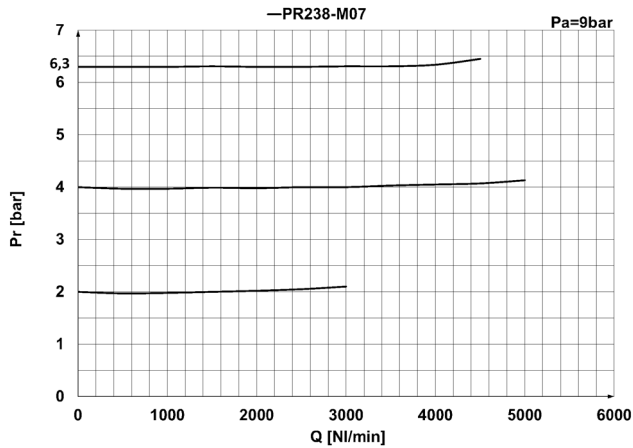


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

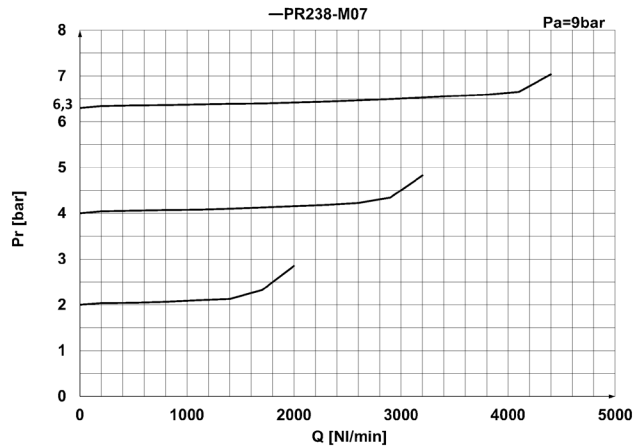


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR238-M07

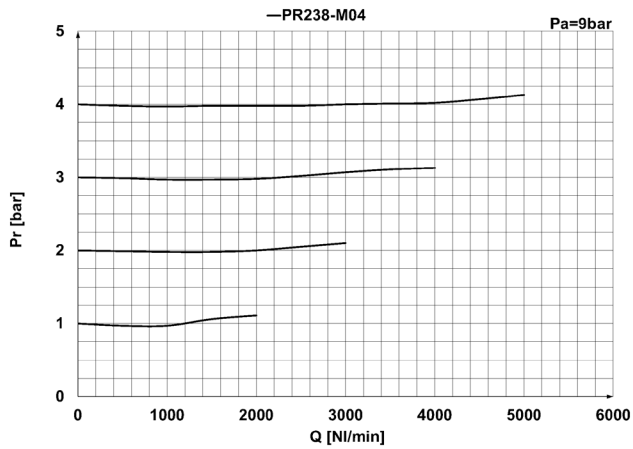


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

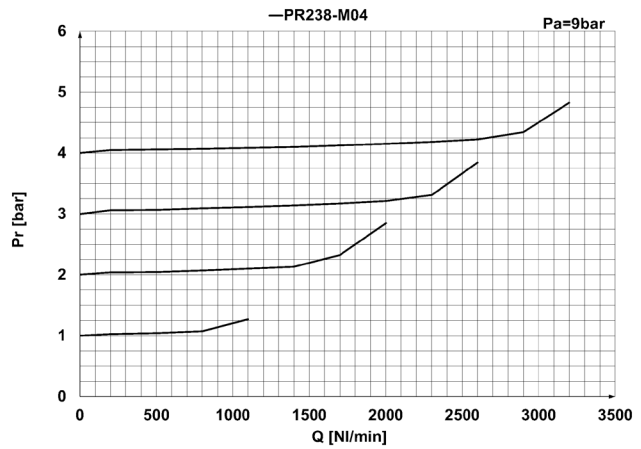


EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR238-M04

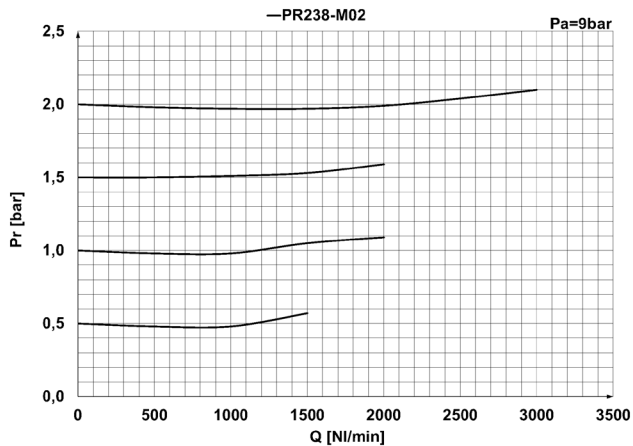


Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

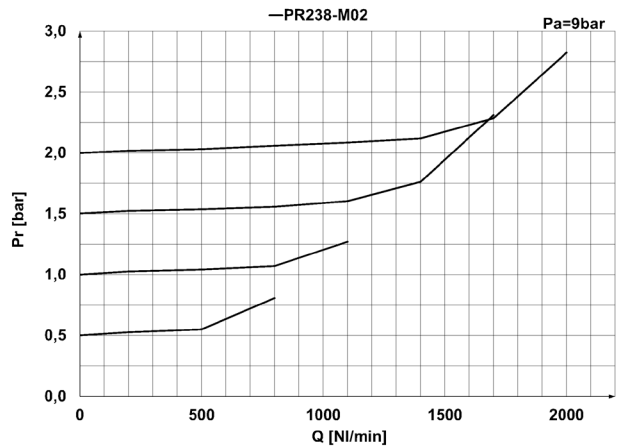


EXHAUST FLOW
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 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)

FLOW DIAGRAMS Mod. PR238-M02



Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)



EXHAUST FLOW
 Pr = Regulated pressure (bar)
 Q = Flow (NL/min)
 Pa = Inlet pressure (bar)